

c.) Amendments to the Claims**Status Identifiers of the Claims**

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Withdrawn)
7. (Withdrawn)
8. (Withdrawn)
9. (Withdrawn)
10. (Withdrawn)
11. (Withdrawn)
12. (Withdrawn)
13. (Withdrawn)
14. (Withdrawn)
15. (Withdrawn)
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)
20. (Cancelled)
21. (Cancelled)
22. (Cancelled)
23. (Cancelled)
24. (Cancelled)
25. (Cancelled)
26. (New)
27. (New)
28. (New)

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- 30. (New)
- 31. (New)
- 32. (New)
- 33. (New)
- 34. (New)
- 35. (New)
- 36. (New)
- 37. (New)
- 38. (New)
- 39. (New)
- 40. (New)

Listing of Claims

Claim 1-5 (cancelled)

Claim 6 (withdrawn): A method of preparing a synthesized plasmid combined from at least two DNA fragments comprising:

- (a) preparing a linear replication origin DNA fragment;
- (b) preparing a linear selection marker gene DNA fragment;
- (c) combining the DNA fragments prepared from steps (a) and (b) to form a circular synthesized plasmid without using a whole existing plasmid as a structure template;
- (d) introducing the plasmid made from step (c) into a host cell; and
- (e) selecting the plasmid with appropriate replication origin and selection marker from transformed host cells.

Claim 7 (withdrawn): The method according to claim 6, wherein any DNA fragment alone used for combining the synthesized plasmid cannot confer both autonomous DNA replication and selection to a plasmid.

Claim 8 (withdrawn): The method according to claim 6, wherein the linear DNA fragments of steps (a) and (b) are prepared from polymerase chain reaction.

Claim 9 (withdrawn): The method according to claim 6, wherein the linear DNA fragments of steps (a) and (b) are prepared from restriction digestion.

Claim 10 (withdrawn): A method of using a synthesized plasmid comprising:

- (a) Linearizing the synthesized plasmid;
- (b) inserting one or more functional DNA fragments to the linearized plasmid to make other plasmids;
- (c) introducing the plasmids made from step (b) into host cells;
- (d) selecting the plasmids and host cells with desired properties; and
- (e) using the plasmids and host cells for biomedical applications.

Claim 11 (withdrawn): The method according to claim 10, wherein linearizing the plasmid was achieved by restriction digestion.

Claim 12 (withdrawn): The method according to claim 10, wherein linearizing the plasmid was achieved by PCR.

Claim 13 (withdrawn): The method according to claim 10, wherein the functional DNA fragments encode a promoter, a regulatory sequence, a ribosome binding site, restriction sites, a terminator, a polypeptide, a replication origin, and a selection marker gene.

Claim 14 (withdrawn): The method according to claim 10, wherein the desired properties are plasmid replication, selection, and the properties added by functional DNA fragments inserted from step (b).

Claim 15 (withdrawn): The method according to claim 10, wherein the biomedical applications are DNA cloning, DNA amplification, gene expression, gene therapy, and DNA immunization.

Claim 16-25 (Cancelled)

Claim 26 (New): A synthesized plasmid comprising the DNA sequence defined by SEQ ID NO: 37.

Claim 27 (New): A DNA fragment comprising the plasmid according to claim 26.

Claim 28 (New): A DNA vector comprising the plasmid according to claim 26.

Claim 29 (New): A bacterial cell strain comprising the DNA vector according to claim 28.

Claim 30 (New): A eukaryotic cell line comprising the DNA vector according to claim 28.

Claim 31 (New): A synthesized plasmid comprising the DNA sequence defined by SEQ ID NO: 39.

Claim 32 (New): A DNA fragment comprising the plasmid according to claim 31.

Claim 33 (New): A DNA vector comprising the plasmid according to claim 31.

Claim 34 (New): A bacterial cell strain comprising the DNA vector according to claim 33.

Claim 35 (New): A eukaryotic cell line comprising the DNA vector according to claim 33.

Claim 36 (New): A synthesized plasmid comprising the DNA sequence defined by SEQ ID NO: 41.

Claim 37 (New): A DNA fragment comprising the plasmid according to claim 36.

Claim 38 (New): A DNA vector comprising the plasmid according to claim 36.

Claim 39 (New): A bacterial cell strain comprising the DNA vector according to claim 38.

Claim 40 (New): A eukaryotic cell line comprising the DNA vector according to claim 38.